Indiana Grade 6

## LineUp With Math<sup>™</sup> Alignment Indiana's Academic Standards - Mathematics

## Standard 2. Computation

Students solve problems involving addition, subtraction, multiplication, and division of integers. They solve problems involving fractions, decimals, ratios, proportions, and percentages.

Indicator	LineUp With Math <sup>™</sup> Activities
6.2.7 Understand proportions and use them to solve problems.	Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.

## Standard 5. Measurement

Students deepen their understanding of the measurement of plane and solid shapes and use this understanding to solve problems. They calculate with temperature and money, and choose appropriate units of measure in other areas.

appropriate arms or measure in carer areas.			
	Indicator	LineUp With Math <sup>™</sup> Activities	
	6.5.1 Select and apply appropriate standard units and tools to measure length, area, volume, weight, time, temperature, and the size of angles.	Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.	

## Standard 7. Problem Solving Students make decisions about how to approach problems and communicate their ideas. LineUp With Math<sup>TM</sup> Activities Indicator 6.7.1 Analyze problems by identifying relationships, --Apply mathematics to solving distance, rate, and telling relevant from irrelevant information, time problems for aircraft conflict scenarios. sequencing and prioritizing information, and observing patterns. 6.7.2 Make and justify mathematical conjectures -- Predict and resolve aircraft conflicts and explain based on a general description of a mathematical results of mathematical calculations and simulations question or problem. Students use strategies, skills, and concepts in finding and communicating solutions to problems. LineUp With Math<sup>TM</sup> Activities Indicator 6.7.4 Apply strategies and results from simpler --Choose and apply a variety of strategies to optimize problems to solve more complex problems. the solution of air traffic control conflicts. 6.7.5 Express solutions clearly and logically by --Predict and resolve aircraft conflicts and explain using the appropriate mathematical terms and results of mathematical calculations and simulations. notation. Support solutions with evidence in both verbal and symbolic work. 6.7.9 Make precise calculations and check the --Use an interactive simulator plus calculation validity of the results in the context of the problem. worksheets to model and resolve air traffic control

	conflicts.
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Students determine when a solution is complete problem by generalizing to other situations.	ents determine when a solution is complete and reasonable and move beyond a particular lem by generalizing to other situations.	
Indicator	LineUp With Math <sup>TM</sup> Activities	
6.7.10 Decide whether a solution is reasonable in the context of the original situation.	Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.	
6.7.11 Note the method of finding the solution and show a conceptual understanding of the method by solving similar problems.	Explore and apply a variety of strategies to optimize the solution of air traffic control conflicts.	